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Previous editions are obsolete.

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SBIN (SHARED BIBLIOGRAPHIC INPUT NETWORK) GUIDE FOR NEW USERS

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Intreduction



Welcome to SBIN!

SBIN stands for the Shared Bibliographic Input Network and is a nationwide network for online shared cataloging of technical reports sponsored by the Defense Technical Information Center (DTIC).

DTIC is the central point within the Department of Defense (DoD) for acquiring, storing, retrieving, and disseminating scientific and technical information (STI) to support Defense research and development efforts. DTIC provides access to and transfer of scientific and technical information for DoD personnel, DoD contractors and potential contractors, and other U.S. Government agency personnel and their contractors. With over 400 employees, DTIC's main facility is located at Cameron Station in Alexandria, Virginia.

Purpose Of This Guide:

As a potential or new user you may be wondering about this mysterious operation called SBIN — but do not worry. The purpose of this guide is to bring together the major concepts about SBIN in plain, easy to understand English. You will then have helpful background information about SBIN before deciding whether you should sign up or before erearing SBIN training. (See Chapter 5 for information about training.)

Coverage Of This Guide:

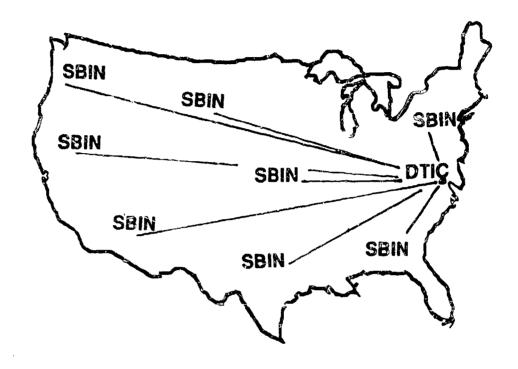
The following topics will be presented so that you will have a better understanding of SBIN:

- o What is SBIN?
- o What Are the Benefits of SBIN?
- o How Do You Become a SBIN Member?
- o How Does SBIN Work?
- o What Training Aids and Training Sessions Are Available?
- o Who Do You Call for Help?
- o What Important Terms Should You Know?

Intended Audience of This Guide:

This guide was designed for the new SBIN user, anyone registered with DTIC who is interested in joining SBIN, or anyone who would like information on what SBIN is all about.

Chapter 1: What is SBIN?



SBIN stands for the Shared Bibliographic Input Network and is a DTIC-sponsored network for online shared cataloging of technical reports. SBIN members nationwide use their computer terminals (usually their DPOLS terminals) and the telephone lines to send cataloging data to a UNIVAC 1100/82 computer located at DTIC's main facility at Cameron Station, Alexandria, VA. Since classified, proprietary, and sensitive information is involved, SBIN is limited to the closed community of Department of Defense (DoD) agencies and DoD contractors who are also DTIC registered users.

The 3BIN catalog records sent to DTIC become part of DTIC's Technical Reports (TR) Database (sometimes referred to in other literature as the Technical Reports (TR) File) — which contains records for over 1.2 million technical reports of Defense or Defense-related completed research efforts. Only DTIC registered users are allowed online access to the TR Database.

One of the main advantages of SBIN is the prompt cataloging of technical reports — making information quickly available to library and information center patrons. ("Cataloging" here refers to the process of describing the features of a technical report — its title, author, number of pages, etc. — as well as assigning subject terms or subject categories to indicate what the report is about.)

In the past, cataloging of technical reports was being duplicated many times within the Defense community. For example, DTIC may have cataloged a report only to have it recataloged by DTIC users for their own libraries. This was a waste of time, effort and resources. With the shared cataloging of SBIN the cataloging is done just once (by DTIC or by a SBIN member) and the resulting record becomes part of the TR Database. When another SBIN site acquires a technical report from DTIC, instead of recataloging the report, they just need to add their unique holdings symbol to the examing catalog record in the Technical Report Input System.

How Is Cataloging Data Sent To DTIC?

An information retrieval system called DROLS (The Defense Research, Development, Test, and Evaluation Online System) resides in DTIC's UNIVAC 1100/82 computer. SBIN sites use a part of this system, the Technical Report Input System (TRIS) to cutually enter (input) cataloging data through their terminal's keyboard. SBIN sites from New York to California can input cataloging data from their remote terminals through TRIS directly to DTIC.

Participating SBIN sites may presently use many types of terminals to access TRIS:

Dedicated terminals are terminals with telephone lines directly wired to DTIC. Dedicated terminals are required when inputting classified records but may also be used for enclassified records.

Dial-up terminals refers to the many different brands of microcomputers and terminals which can be used to access TRIS, thus allowing for SBIN input. Dial-up terminals are used to input only unclassified records of technical reports.

Chapter 2: What Are The Benefits of SBIN?



1. Assistance in construction of an online catalog of the technical reports in your library.

This is done by appending your site holding symbol (a unique 3 character symbol which represents your site) to the cataloged records for the technical reports you own. It can be entered in three ways:

- a. The site holding symbol can be ε^{-1} ed in a special field to the cataloging record when you initially catalog a technical report.
- b. If your library or information center has a technical report, but a search of the TR Database shows that DTIC or another SBIN participant has already cataloged it, you may add your site holding symbol to the already cataloged record.
- c. If requested, DTIC will automatically add your site holding symbol to records in the TR Database for technical reports you receive through the ADD program. ADD stands for Automatic Document Distribution and provides for the automatic distribution (every two weeks) of microfiche copies of newly accessioned scientific and technical reports in accordance with your interest profile. DTIC will halp you establish an interest profile based on contract numbers, subject areas, personal authors, or other retrieval elements.

2. Increased access to and usage of your technical report collection.

The great advantage of the site holding symbol is that it can be used to restrict a search of the TR Database to your holdings. You can provide subject access to your technical reports collection, as well as access by title, author, contract number, report number, etc.

3. Printed indexes and bibliographies of citations to the technical reports in your collection.

Your site holding symbol will be included in any printed bibliographies you order from DTIC if you use the TR 9000 format when you order search results on DRCLS. You may also request a listing of all your holdings from the TR Database which can be used as a paper-copy back-up if the online system is down.

4. End duplication of effort.

Documents already cataloged by DTIC will no longer have to be recataloged in your local system. You need only append your site holding symbol to the catalog record.

For documents originating in your agency, you will do the initial original cataloging. With the in-depth knowledge of your agency and your easy access to the technical report authors, the cataloging that you do will be more accurate. Then when the document is sent to DTIC, our catalogers will review your input and modify the record only when it is deemed necessary for retrievability, and only with the concurrence of the creating SBIN site.

SBIN cataloging records for technical reports are available to DTIC and to the entire DTIC community; neither DTIC nor other SBIN sites need to repeat the cataloging effort.

5. Paster announcement of the availability of technical reports.

Records of technical reports cataloged through SRIN are announced 6-8 weeks faster than if the same technical report were sent to DTIC to be cataloged. This benefits researchers, scientists and other users who need the most up-to-date technical information as soon as it is available.

6. Identification of a wider range of DoD technical information.

SBIN sites may wish to announce the availability of DoD technical information not previously or normally included in DTIC's holdings. By cataloging such materials a SBIN site will make DTIC and its users aware of the existence of this information. Such information would include:

- a. Technical reports which originated at your site but are of local interest only. Copies are kept at your site and not forwarded to DTIC. However, because of the SBIN record, DTIC and other DTIC users are aware that these reports exist.
- b. Documents which you catalog from other agencies. You may forward copies to DTIC or DTIC may obtain them from the originating agency if they are of value to DTIC users.
- 7. Participation in creating cataloging and indexing rules and standards, and a better working relationship with DTIC.

SBIN participants may become members of or forward comments to the Resource Sharing Advisory Group (RSAG)—a nine member committee which provides advice and makes recommendations on matters dealing with DTIC's SBIN Program and other resource sharing activities. Thus SBIN sites are active members in spotting problems and recommending solutions.

For further information on the history and development of SBIN and its benefits you may wish to read the following publications:

The Shared Bibliographic Input Network (SBIN): A Summary of the Experiment. AD-A 133 00:

How Life Has Chr. ged at CARL.

AD-P 001 900

Chapter 3: How Do You Become A SBIN Member?

Any registered DTIC user may become a SBIN participant.

Contact the SBIN Program Manager with your membership request:



SBIN Program Manager DTIC-HDB Bibliographic Database Branch (202) 274-6804 Autovon: 284-6804

DTIC will need to know if you plan to use dedicated or dial-up terminals to input records so proper programming connections with DTIC can be made. If you are already a DROLS user you can use the same terminals for SBIN.

Upon registration you will receive:

- 1. A "Site Holding Symbol." This symbol, which you help compose, is a unique identifier for your SBIN site. It contains three alpha characters, assigned by DTIC, as your site identification code, and may be followed by up to 12 alphanumeric and/or special characters, which you assign -- for a total of up to 15 characters.
- 2. ADE or ADF accession number ranges. AD means "accessioned document." An AD number is a unique number assigned to a document for identification purposes. Your site will assign ADE or ADF numbers to documents as they are cataloged for SBIN. Later, upon acquiring a copy of the cataloged technical report, DTIC will change the accession number to ADA, B, C, or P.
- 3. Information about a one-week SBIN training session at DTIC. At the training session you will receive several important manuals that will help you utilize SBIN. (See Chapter 5 in this guide entitled "What Training Aids and Training Sessions Are Available?")

Best Available Copy

Chapter 4: How Does SBIN Work?



This section will present a general overview of the cataloging of a technical report -- from the time it reaches your desk to the point that it is represented as a completed catalog record available to qualified users of DTIC's Technical Reports (TR) Database. But first, additional information may be helpful.

For purposes of this guide, "cataloging" refers to the process of preparing information about a document for placement into a database. The intent is to create a concise written picture of the technical report for a user who may not have access to the actual report. At a SBIN participant you will be preparing information about a technical report for placement in DTIC's TR Database.

You will be responsible for both descriptive and subject cataloging. Descriptive cataloging means providing bibliographic representation of a document and its access points (i.e., author, report date, number of pages, etc.). Subject cataloging, on the other hand, is the process of identifying the main topic coverage of a document (i.e., deciding what the document is about). Subject terms or phrases are chosen from the <u>LTIC Regional and Lagrange</u> Terminology (DRIT). Subject categories, referred to as Fields and Groups, are established by using the <u>Subject Categorization Guide for Defense Science & Technology</u>.

The process of cataloging a document can be better understood if a completed cataloging record is shown. Figure 1 represents an actual catalog record taken from DTIC's TR Database.

Each SBIN record, such as the one below, is made up of fields -- represented by the numbers on the left. Each field holds a unique type of information. For example, Field 1 contains the Accession Number of the document; Field 6, the Unclassified Title; Field 27, the Abstract, etc.

```
Figure 1
                                Typical SBIN Record
        1
            CIF
 -- 1 -
          AD NUMBER: 4159001
          FIELDS AND GROUPS: 5/10
          ENTRY CLASSIFICATION: UNCLASSIFIED
 -- 5 -
          CORPORATE AUTHOR: DEFENSE TECHNICAL INFORMATION CENTER ALEXANDRIA
          UNCLASSIFIED TITLE:
                                        EXAMINING LEARNING THEORY OF ONLINE
          INFORMATION RETRIEVAL SYSTEMS AND APPLICATIONS IN COMPUTER-AIDED INSTRUCTION: IMPLICATIONS FOR THE DEFENSE TECHNICAL INFORMATION
          CENTER'S COMPUTER-AIDED INSTRUCTION.
          TITLE CLASSIFICATION:
                                      UNCLASSIFIED
 -- A -
          DESCRIPTIVE NOTE: FINAL REFT. .
 -- 9 -
         PERSONAL AUTHORS: WITGES, S. A.
          REPORT DATE:
                                      . 1985
                                SEP
 --11 -
          PAGINATION:
 --12 -
          REPORT NUMBER:
 - 14 -
                               DTICKTR 85 11
          REPORT CLASSIFICATION: UNCLASSIFIED
 --20 -
          DESCRIPTORS:
                               *COMPUTER AIDED INSTRUCTION, *COURSES/EDUCATION),
--23 -
          DEPARTMENT OF DEFENSE, TECHNICAL INFORMATION CENTERS, LEHRNING, INFORMATION RETRIEVAL, INFORMATION SYSTEMS, ON LINE SYSTEMS, THESES,
--
          HUMANS, LEARNING, THEORY, TEACHING METHODS
          DESCRIPTOR CLASSIFICATION:
-- 24 -
                                              UNCLASSIFIED
              <<P FOR NEXT PAGE>> OR <<ENTER NEXT COMMAND>>
--25 -
         IDENTIFIERS:
                                DTIC(DEFENSE TECHNICAL INFORMATION CENTER), DROLS
          (DEFENSE ROT AND E ONLINE SYSTEM)
         IDENTIFIER CLASSIFICATION:
                                              UNCLASSIF1ED
          ABSTRACT: THE DEFENSE TECHNICAL INFORMATION CENTER (DTIC) IS DEVELOPING A COMPUTER-AIDED INSTRUCTION (CAI) TUTORIAL COURSE
--27 -
          ENTITLED 'INTRODUCTION TO DROLS RETPIEUAL' IN ORDER TO TRAIN USERS
          OF ITS ONLINE INFORMATION RETRIEVAL SYSTEM, THE DEFENSE ROTALE ONLINE SYSTEM (DROLS). IN OPDER TO MAXIMUM BENEFITS OF CAI TO DIIC.
          THIS PAPER EXAMINED THREE AREAS: (1) LEHRNING THEORY AS IT RELATES TO ONLINE RETRIEVAL SYSTEMS. THAT IS, HOW DO HUMANS LEARN THESES
          SYSTEMS; AND (2) LEARNING THEORY AND ITS APPLICATION TO CAI; AND (3)
          AN ADVANCE DRAFT OF DTIC'S IN-HOUSE-DEVELOPED CAI COUPSE ENTITLED
         INTRODUCTION TO RECOMMENDATIONS ARE PRESENTED IN ALL THREE AREAS. KEYWORDS: TEACHING METHODS; ON LINE SYTEMS; LEARNING; COMPUTER
          ASSISTED INSTRUCTION; DTIC(DEFENSE TECHNICAL INFORMATION CENTER);
          PILOT.
--28 -
         ABSTRACT CLASSIFICATION:
                                              UNCLASSIFIED
         INITIAL INVENTORY:
LIMITATION CODES:
--29 -
--33 -
                              F
--34 -
         SOURCE SERIES:
--35 -
         SOURCE CODE:
                               394981
         DOCUMENT LOCATION:
                                       NTIS
--3: -
             <<P FOR NEXT PAGE>> OF <<ENTER NEXT COMMAND>>
0
         GEOPOLITICAL CODE:
--40 -
                                       $106
         TYPE CODE: Y
-- 41 -
         IAC DOCUMENT TYPE:
--43 -
```

A SBIN catalog record for a technical report holds several fields of information. However, the number of fields to be completed will vary according to the technical report to be cataloged: A classified document would require more fields of information than an unclassified document. Notice that the sample SBIN record in Figure 1 contains only 25 fields of information. Some of the fields are automatically generated by the computer based on information entered in other fields (e.g., fields 3, 5, 36, 40, and 41).

You will find the following manuals to be helpful. They will be made available to you free of charge when you take the one-week SBIN class.

- 1. Shared Bibliographic Input Manual.
- 2. Defense Technical Information Center Cataloging Guidelines.

Before cataloging begins, you will designate the technical report as belonging to one of the four DTIC-created document categories -- called Phases. These Phases are useful in describing the origin of the technical report and how it will be subsequently handled. The four Phases are:

- Phase I. Newly published documents of general interest generated by your agency or by an organization under contract to you. Two copies will be forwarded to DTIC after the SBIN record is input.
- Phase II. Older published documents of general interest not yet sent to DTIC which were generated by your agency or by an organization under contract to you. Two copies will be forwarded to DTIC.
- Phase III. Documents which were generated by your agency which will not be sent to DTIC but are still suitable for announcement purposes in the TR Database. These are usually local interest items of limited interest to other DTIC users.
- Phase IV. New or old documents which you hold, suitable for announcement in the TR Database, but which were pro "ced by other agencies. You may forward a copy to DTIC or DTIC may ask the originating agency for a copy if there is sufficient interest in it from DTIC users.

Chapter 5: What Training Aids and Training Sessions are Available?



Training and training aids will be available to you as a registered SBIN user.

Training Sessions

Training for input on either dedicated or dial-up terminals consists of a five day (Menday - Friday) course usually offered at the Defense Technical Information Center. The session covers:

- Hands on training using the Technical Report Input System (TRIS)
- o Duplicate checking procedures
- o Descriptive cataloging
- o Subject indexing (Descriptors, identifiers, and fields and groups)
- o Descriptions of file interactions and DTIC's Master File
- o File maintenance comm: ids -- how to change or add to a record
- o Discussions and meetings with DTIC in-house personnel associated with SBIN

To achedule a SBIN training session contact the SBIN Program Manager at (202) 274-6804 or Autovon 284-6804. For more information about the session or tips on accommodations in the Washington, DC area call (202) 274-7791 or Autovon 284-7791.

Training Aids

Training Aids assist SBIN users in cataloging and inputting data into TRIS. Since many of these aids are updated on a regular basis, you should contact DTIC to obtain information about the latest publication. You will receive the first six documents listed below during your SBIN training session:

1. Shared Bibliographic Input Manual.

This document contains the basic guidelines for using SBIN. It includes: instructions on duplicate checking, descriptions of each input field, TRIS operating instructions, and open-ended term guidelines.

2. Defense RDT&E Dedicated On-Line System Terminal Operator's Manual (INPUT) Defense RDT&E Online System Dial-Up Input Manual.

These manuals outline step-by-step input procedures, and also relate detailed descriptions and general reference data about:

Remote terminal equipment and operations of this equipment; entry into TRIS; the use of specific commands in the input process; processing TRIS data into DTIC's databases; file maintenance; and general functions.

Appendix C, Format Guide for the Technical Report Data Base (IXTR), is a reference guide listing all data fields contained in a SBIN cataloging record. The Format Guide contains: field number, name of field, field length (minimum and maximum), data types allowed in each field, requirement type of field, and description/format of each field.

3. Defense RDT&E Dedicated Online System Input Mini-Manual.

This compact manual describes system input commands and their functions. It offers a very good shortened version of how to use the input system.

4. Defense RDT&E Online System Dedicated Reference Guide for Input.

This is a small portable booklet which provides quick reference for those already familiar with inputting procedures. It contains a list of functions (display, edit, etc.) and their commands, plus data element format charts.

5. Defense Technical Information Center Catalogine Guidelines.

A manual used by DTIC for the cataloging of technical reports. DTIC uses the same input system as SBIN members, therefore, this document outlines the basic guidelines for descriptive cataloging (no subject cataloging included) that SBIN sites would use. Since this is a recent document it should be consulted for up-to-date information about descriptive cataloging fields.

6. DTIC/SBIN Notices.

Ad hoc notices issued by DTIC which update or describe new SBIN features or procedures. These notices should always be saved and consulted as they contain the most recent information about SBIN.

Other reference documents are available through DTIC which may prove helpful to you as a SBIN participant:

7. Subject Categorization Guide for Defense Science & Technology.

A listing of 25 broad subject fields (from field 01 Aviation Technology to field 25 Communications) subdivided by 251 groups. This listing of fields and groups provides the basis for subject grouping of technical reports.

8. Source Header List Volumes I and II.

These two volumes are an alphabetical listing of all corporate sources who submit material for DTIC's databases. The source code entered in field 35 automatically generates the name of the corporate author displayed in field 5 of the SBIN cataloging record.

9. DTIC Retrieval and Indexing Terminology (DRIT)

The DRIT contains DTIC's vocabulary (a list of terms also called "posting terms" or "postings") which DTIC uses for the subject indexing and retrieval of scientific and technical literature.

Chapter 6: Who Do You Call For Help?



The following DTIC personnel can be contacted if you have questions or problems relating to SBIN:

SBIN policy, coordination and scheduling for training

SBIN Program Manager (202) 274-6804 Autovon: 284-6804

Descriptive cataloging questions

Cataloger for SBIN (202) 274-6805/6806 Autovon: 284-6805/6806

Subject cataloging (i.e., DRIT terms, identifiers, abstracting)

Subject Analyst (202) 274-6876 Autoven: 284-6876 TRIS methodology and procedure, training coverage and accommodation questions

Input Trainer (202) 274-7791 Autovon: 284-7791

Equipment (i.e., terminals, printers, modems, etc.) problems, Sign-on difficulties, strange signals, etc.

Programmers (202) 274-6861 Autovon: 284-6861 or (202) 274-6863 Autovon: 284-6863

Phase III or IV document suitability, distribution/availability statement

Selection Specialist (202) 274-6807 Autovon: 284-6807

Error listings (i.e.,. feedback from DTIC about your cataloging record)

Documentation Specialist (202) 274-6814 Autovon: 284-6814

Phase III or IV document acquisitions

Acquisitions Specialist (202) 274-6847 Autovon: 284-6847

Chapter 7: What Important Terms Should You Know? --A Glossary of SBIN Terms



ADD

Automatic Document Distribution Program. DTIC users who participate in the ADP program establish a profile of their interests and receive, every two weeks, microfiche copies of newly accessioned technical reports which match those interests. If requested by a SBIN site, DTIC will automatically add the sites's holding symbol to the TR Database records for technical reports received through the ADD program. When your ADD microfiche arrive, your online catalog will already be updated.

AD Number

"Accessioned Document." An AD number is a unique alphanumeric identifier assigned by DTIC to each technical report for identification purposes (for example, AD-A1!5 000).

Cataloging

The process of preparing information about a document for placement into a database. Cataloging includes subject cataloging (assigning subject terms or subject catagories to a document) and descriptive cataloging (providing bibliographic representation of a document, for example: author, report date, number of pages, etc.).

Dedicated Terminals

Dedicated terminals are terminals directly wired to DTIC and dedicated to that one purpose — accessing or inputting to DTIC.

Descriptive Cataloging

Descriptive cataloging is the process of establishing bibliographic representation of a document and its access points (for example, author, title, page numbers, etc.) exclusive of subject cataloging.

Dial-Up Terminals

Often called "diverse dial-up terminals." These terminals can be dumb terminals, smart or intelligent terminals or microcomputers. They can be used for a variety of purposes including accessing or inputting to DTIC.

DRIT

DTIC Retrieval and Indexing Terminology. The DRIT is a DTIC publication which contains the terms (also called "posting terms" or "postings") used for subject indexing and retrieval of records in DTIC's major databases.

DROLS

Defense RDT&E Online System. An online information retrieval system which links remote terminals located across the United States to DTIC's central computer at Cameron Station, Alexandria, VA. DROLS is interactive and is used for information retrieval as well as for inputting cataloging records through SBIN.

Field

A field is a specific part of a record which always holds the same type of information. For example, in a SBIN cataloging record, Field 6 always contains the unclassified title.

Input

The process of putting or entering data into a computer system. In SBIN you will use the Technical Report input System to enter or "input" cataloging data.

Phase I

A DTIC-created document category A current published document generated and controlled by your agency and produced by in-house personnel or under contract. Two copies of the document will be forwarded to DTIC after the SBIN cataloging record is input.

Phase II

A DTIC-created document category. An older published document generated and controlled by your agency and produced by in-house personnel or under contract. Two copies of the document will be forwarded to DTIC after the SBIN cataloging record is input.

Phase III

A DTIC-created document category. Any current or older published document generated and controlled by your agency and produced by in-house personnel or under contract. You can send this document to DTIC at any time. DTIC will fill requests for the document when it has been converted to an AD-A, AD-B, or AD-C number.

Phase IV

A DTIC-created document category. Any current or older published document held by your site but NOT generated and controlled by your agency. If the document meets DTIC's acquisition criteria, a copy will be requested from the originating agency. If unable to obtain a copy, acquisitions will ask the inputting SBIN site for a retention or loan copy. Phase IV is true shared cataloging.

Record

A record is a collection of related fields. For example, a SBIN cataloging record could contain 39 fields of information.

SBIN

Shared Bibliographic Input Network. A DTIC-sponsored network for cataloging technical reports, operating within the closed community of DoD and its contractors since classified, proprietary, and sensitive information is involved. The system uses DROLS terminals and DTIC's Technical Report Input Subsystem (TRIS) for online data technical reports from their remote terminals.

Site Holding Symbol

The site holding symbol is a unique symbol 3 characters long which represents your site. It may be appended to a technical report record if your library or information center has a copy of the technical report.

Subject Cataloging

Subject cataloging designates the topic coverage of a technical report. It includes assiming subject terms (DRIT terms and non DRIT terms or identifiers) and subject classification (assigning subject fields and groups).

Technical Report

A written report, usually a formal document, which is the permanent official record of a study or phase of a study of a particular art, science, profession, or trade. The purpose of the report is to disseminate the results of the activity and to foster the exchange of information.

Technical Reports (TR)
Database

The Technical Reports Database is a collection of bibliographic citations to documents that convey the progress or result of Defense-sponsored Research, Development, Test and Evaluation (RDT&E) effort. The SBIN cataloging record you enter will become part of the TR Database.

TRIS

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